

**ALKALINE CELL HAVING A CATHODE INCORPORATING  
ENHANCED GRAPHITE**

**ABSTRACT OF THE DISCLOSURE**

An electrochemical cell having a cathode containing an expanded graphite as an electrically conductive carbon material. To provide enhanced service performance in the cell, the expanded graphite has a kerosene absorption in the range of 2.2 to 3.5 ml/g, an average particle size of 17 to 32 micrometers, a  $d_{90}$  value of 40 to 85 micrometers, and an average surface area-to-mass ratio of at least  $18 \text{ m}^2/\text{g}$ . A method is also provided for determining an optimum expanded graphite including the steps of measuring physical characteristics of the expanded graphite determining the performance of a cell containing the expanded graphite in the positive electrode, and determining the optimum expanded graphite for use in the cell.

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